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## The Affleck-Dine dynamics of pangenesis

*Saturday, July 7, 2012 9:15 AM (15 minutes)*

In pangenesis, the baryon asymmetry of the universe and the dark matter abundance are generated simultaneously via the Affleck-Dine mechanism. This talk will discuss the Affleck-Dine dynamics, both for the case of gravity- and gauge-mediated supersymmetry breaking. Cosmological constraints on the scenario, in particular arising from the production of gravitinos and the formation of Q-balls, will be considered and the viable regions of parameter space for successful pangenesis presented. The results are also applicable to other scenarios involving the Affleck-Dine mechanism.

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not needed

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